

**Amendments to the Claims:**

This listing of claims will replace all prior versions and listings of claims in the application:

**Listing of Claims:**

**Claim 1 (Previously Presented):** A control assembly for electrocoagulation cell comprising:

- a. a plurality of electrodes;
- b. releasable connection means between at least a selection of the electrodes comprising an elongate busbar which is arranged normal to respective top edges of each electrode in plan view and which extends through a notch, slot or aperture located in individual tabs which each extend upwardly from an adjacent top edge of each electrode whereby the busbar is spaced from the top edges of each electrode so as to avoid contact with liquid contained in the electrocoagulation cell in use as well as a plurality of fasteners attached to said busbar whereby each fastener abuts or is located closely adjacent to an adjoining surface of each electrode; and
- c. electrical connection means attached to the busbar at each end thereof which in use is connectable to a power supply.

**Claim 2 (Previously Presented):** A control assembly as claimed in claim 1 wherein the busbar is threaded and the plurality of fasteners comprise one or more threaded nuts each having an associated washer.

**Claim 3 (Currently Amended):** A control assembly as claimed in ~~any preceding claim~~ claim 1 wherein the electrical connection means comprises a power lead secured to an electrical connector having an aperture for engaging with an adjacent end of the busbar.

**Claim 4 (Previously Presented):** A control assembly as claimed in claim 3 wherein each electrical connector is attached to the busbar with a fastener on either side of the connector.

**Claim 5 (Previously Presented):** An electrocoagulation system comprising:

- a. a controller that is selectable for providing both a constant output current and/or a constant output voltage whereby the electrolytic cell may process samples of varying characteristics;
- b. a voltage regulator;
- c. a transformer having a primary coil connected to the voltage regulator;
- d. a rectifier connected to a secondary coil of the transformer; and

- e. a voltage or current regulator which receives an output from the rectifier and together with said controller effects a firing control of the voltage regulator.

**Claim 6 (Previously Presented):** An electrocoagulation system as claimed in claim 5 wherein the control means in a voltage and current potentiometer.

**Claim 7 (Previously Presented):** An electrocoagulation system as claimed in claim 6 wherein the potentiometer is set for a constant output DC current thereby allowing the power supply to provide a variable output DC voltage.

**Claim 8 (Previously Presented):** An electrocoagulation system as claimed in claim 6 wherein the potentiometer is set for a constant output DC voltage thereby allowing the power supply to provide a variable output DC current.

**Claim 9 (Currently Amended):** An electrocoagulation system as claimed in ~~any one of claims 5-8~~ claim 5 which has an adjustable switch connectable to the power source and which is also connected to the voltage regulator.

**Claim 10 (Previously Presented):** An electrocoagulation system as claimed in claim 5 which further includes a polarity switch relay to select an output polarity.

**Claim 11 (Currently Amended):** An electrocoagulation system as claimed in ~~any one of claims 5 to 10~~ claim 5 which further includes a current trip for protection against exceeding a maximum DC amperage rating of the power supply.

**Claim 12 (Currently Amended):** An electrocoagulation system as claimed in ~~any one of claims 5 to 11~~ claim 5 which further includes an over temperature relay to sense any overheating in the rectifier.

**Claim 13 (Original):** An electrocoagulation system as claimed in claim 9 which comprises:

- (vi) an adjustable switch connectable to a power source;
- (vii) a voltage regulator connected to the switch;
- (viii) a transformer having a primary coil connected to the voltage regulator;
- (ix) a rectifier connected to a secondary coil of the transformer and;
- (x) said control means being connected between the switch and the voltage regulator to control a DC output applied to the electrolytic cell to have said selected constant current or said selected constant voltage.

**Claim 14 (Original):** A power supply as claimed in claim 13 which further includes a polarity switch relay to select an output polarity.

**Claim 15 (Currently Amended):** A power supply as claimed in ~~claim 13~~  
~~or 14~~ claim 13 which further includes a voltage or current regulator which receives an  
output from the rectifier ~~and~~ and together with said control means effects a firing  
control of the voltage regulator.

**Claim 16 (Currently Amended):** A power supply as claimed in ~~any one of~~  
~~claims 13 to 15~~ claim 13 wherein said control means includes a voltage and current  
potentiometer.

**Claim 17 (Currently Amended):** A power supply as claimed in ~~any one of~~  
~~claims 13 to 16~~ claim 13 which further includes a current trip for protection against  
exceeding a maximum DC amperage rating of the power supply.

**Claim 18 (Currently Amended):** A power supply as claimed in ~~any one of~~  
~~claims 13 to 17~~ claim 13 which further includes an over temperature relay to sense  
any overheating in the rectifier.